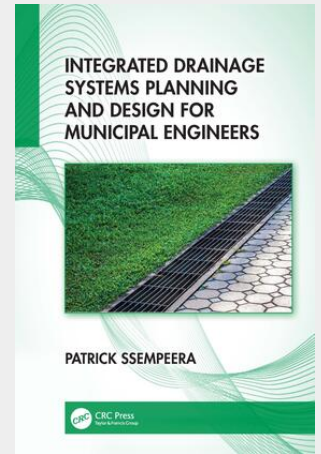


Ssempeera

Integrated Drainage Systems Planning and Design for Municipal Engineers

Urban water management has to take an integrated approach that prioritizes sustainable drainage systems (SuDS) over gray infrastructure. This book elaborates on the planning and evaluation of pipework drainage systems with a focus on modern-day constraints to deliver a solution that favors sustainability as the overarching goal. The book includes a technical section on design of gray and green infrastructure, considering the total lifecycle costs of drainage systems. Advanced computer simulation techniques are discussed after covering the derivation of both standard and empirical equations for appropriate hydrology and hydraulics. The book provides an incorporation of reliability analyses for both green and gray infrastructure starting with techniques for forecasting flows, hydraulic performance, and lifecycle costs. The work also involves 3-D modeling, geospatial and big data analysis, and how these techniques are applied into city management—particularly beneficial to municipal engineers who are increasingly becoming involved in mapping the underground. Soil mechanics and subsurface drainage systems are analyzed and structural aspects of sewers are included. Finally, soil behavior in shear, retaining wall structures, and tunneling is briefly featured in the book. This book will be of interest to (under)graduate and postgraduate engineering students, drainage engineers, urban planners, architects, water engineers, developers, construction contractors, and municipal engineers.



144,50 €

135,05 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781032186290

Medium: Buch

ISBN: 978-1-032-18629-0

Verlag: Taylor & Francis Ltd (Sales)

Erscheinungstermin: 05.05.2023

Sprache(n): Englisch

Auflage: 1. Auflage 2023

Produktform: Gebunden

Gewicht: 989 g

Seiten: 498

Format (B x H): 170 x 244 mm

